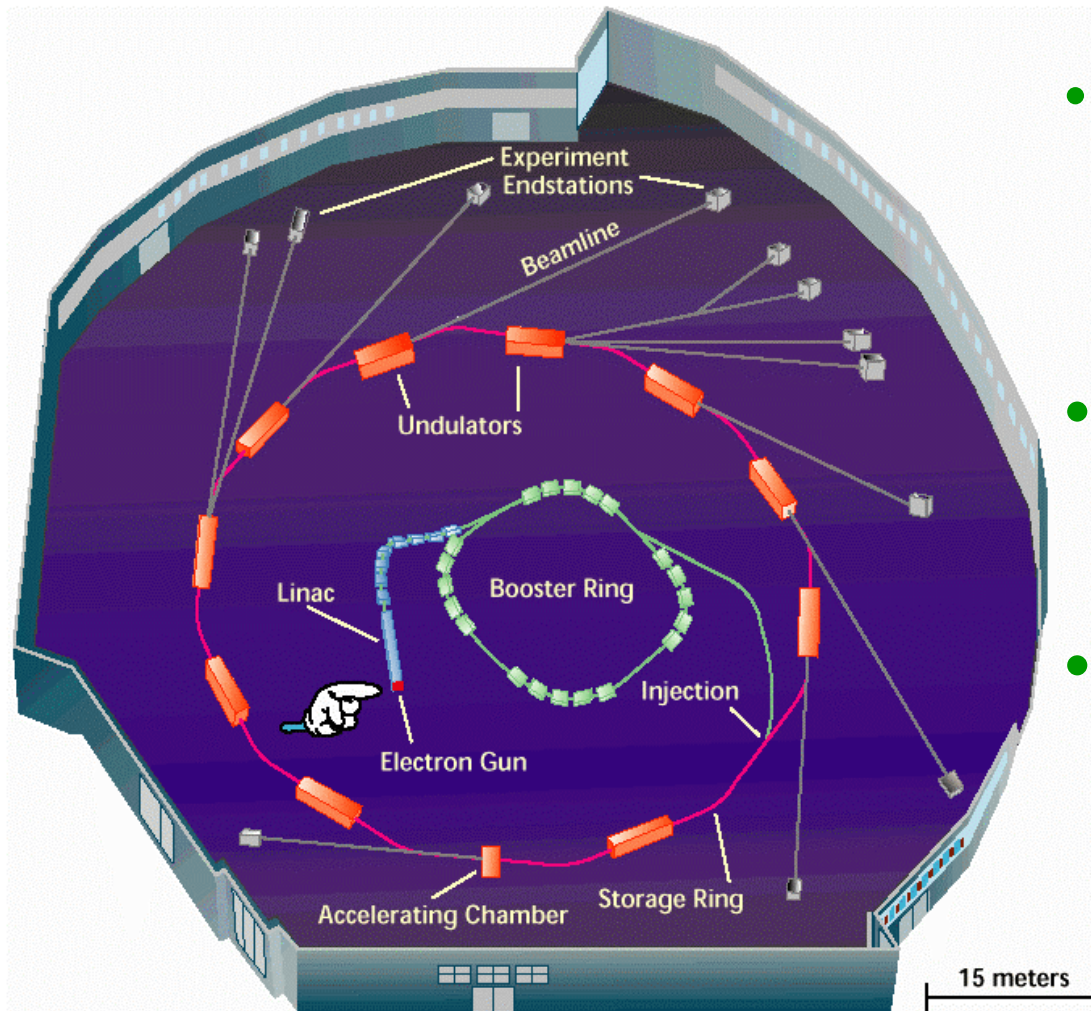




ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

Why use a synchrotron for IR?



- **High brightness**

Essentially a point source

- Can focus light to a diffraction-limited size: [Microscopy](#)

- **More far-IR flux**

- Smaller samples
- Better signal-to-noise

- **Pulsed source**

- Light is from electron bunches
- Fast timing measurements (nsec)